DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

STRIKE FIGHTER TRAINING PROGRAM

N88 NTSP-A-50-9906/D

SEPTEMBER 1999

STRIKE FIGHTER TRAINING PROGRAM

EXECUTIVE SUMMARY

The Strike Fighter Training Program (SFTP) is a training concept designed to provide the infrastructure and support systems necessary for standardized and enhanced training at the fleet aircrew level. The goal is to increase flight crew readiness and combat capabilities while achieving training economy and efficiency.

The Strike Fighter Training System (SFTS) is designed to provide Navy and Marine Corps F-14 and F/A-18 aircrews with a standardized, Computer Based Training system. Its primary features include delivery of current Interactive Courseware (ICW) and Computer Aided Instruction Materials, as well as providing a vehicle for the transmission of classified Electronic Mail. The SFTS will be available to all Strike Fighter squadrons, weapons schools, and tactics development centers. The SFTS is in an Abbreviated Acquisition program, currently in the Engineering and Manufacturing Development phase of the Weapon System Acquisition Process. Initial Operational Capability (IOC) is scheduled for June 2000.

The SFTP is the initial model for the Air Combat Training Continuum (ACTC) and consists of three pillars. The Strike Fighter Tactics Instructor (SFTI) program provides a cadre of formally trained instructors tasked to implement and administer the SFTP at the squadron and Type Wing weapons school levels. The Strike Fighter Weapons and Tactics (SFWT) syllabus is a comprehensive training architecture that provides a framework for unit level training and sets standards of tactical proficiency and combat readiness. The SFTS is a computer-based, networked training system with the architecture, equipment, and training tools required to provide real-time support to the SFTIs and fleet aircrew, whether ashore or afloat.

A system administrator position staffed by Government Service or Contracted personnel, will be filled for each major installation (NAS Lemoore, Naval Strike and Air Warfare Center (NSAWC) and NAS Oceana) to perform organizational level maintenance on the SFTS workstations, servers, and Local Area Network (LAN) systems. A second position is also envisioned at those sites that will perform the courseware review and integration function.

Analysis and Technology, Inc. delivered the initial set of hardware (and the associated software) in third quarter Fiscal Year 98. A follow-on contract to outfit the remaining units as well as develop and implement a Training Management System (TMS) was awarded to Booz, Allen and Hamilton, Inc. in February 1999. Both vendors will perform repairs on the SFTS, server, and LAN beyond the capability of the respective system administrator for two years after installation. A third contract for development of the courseware that will reside on the SFTS was also awarded to Logistic Services International in February 1999.

The SFTP had no impact on existing manpower requirements for F-14 and F/A-18 communities. Selected F-14 and F/A-18 aircrews are being trained as SFTIs, who in turn, will administer the syllabus and verify the training material for accuracy. Their primary responsibilities

are internal, unit-level training and external standardization and evaluation. An Additional Qualification Designator (AQD) for SFTI is pending approval.

The Naval Research and Development department of the Naval Air Systems Command was funded by the Chief of Naval Operations (N889) to produce a Strike Fighter Executive Steering Committee (ESC)/Program Advisory Group (PAG) Guide and a SFTS Interactive Courseware Style Guide. These guides provide initial training for the SFTS ESC and PAG. Analysis and Technology, Inc. conducted initial SFTS training for System Administrators at all Strike Fighter Weapons Schools to include: Windows NT 4.0, Workstation 4.0, and Cheyenne Server back-up software. This took place between May and June 1998. In addition to SFTS-related training, the NSAWC is responsible for follow-on training of SFTIs.

STRIKE FIGHTER TRAINING PROGRAM

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LIST OF ACRONYMS

ACTC	Air Combat Training Continuum
AOB	Average On Board
AQD	Additional Qualification Designator
ATIR	Annual Training Input Requirement
CAI	Computer Aided Instruction
CBT	Computer Based Training
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, United States Atlantic Fleet
CINCPACFLT	Commander in Chief, United States Pacific Fleet
CINCUSNAVEUR	Commander in Chief, United States Navy Europe
CMC	Commandant of the Marine Corps
CNO	Chief of Naval Operations
COMNAVAIRLANT	Commander Naval Air Force, U. S. Atlantic Fleet
COMNAVAIRPAC	Commander Naval Air Force, U. S. Pacific Fleet
COMNAVAIRESFOR	Commander Naval Air Reserve Force
COTS	Commercial Off-The-Shelf
CPU	Central Processing Unit
CV	Aircraft Carrier
CVN	Aircraft Carrier, Nuclear
CVWR	Carrier Air Wing Reserve
DIA	Defense Intelligence Agency
E-Mail	Electronic Mail
ESC	Executive Steering Committee
FRD	Functional Requirements Document
FRS	Fleet Readiness Squadron
FY	Fiscal Year
GCI	Ground Controlled Intercept
HTML	Hyper-Text Markup Language
ICW	Interactive Courseware
IT21	Information Technology for the 21st Century
JICPAC	Joint Intelligent Center Pacific

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LIST OF ACRONYMS

JMEM	Joint Munitions Effectiveness Manual
JRB	Joint Reserve Base
LAN	Local Area Network
LRU	Lowest Replaceable Unit
MACE	Missile Air Combat Evaluator
MAWTS	Marine Aviation Weapons and Tactics Squadron
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MNS	Mission Needs Statement
MOS	Military Occupational Specialty
NA	Not Applicable
NAF	Naval Air Facility
NALCOMIS	Naval Aviation Logistics Command Management Information System
NAS	Naval Air Station
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIRSYSCOM	Naval Air System Command
NAWCWD	Naval Air Warfare Center Weapons Division
NRB	Naval Reserve Base
NSA	National Security Agency
NSAWC	Naval Strike and Air Warfare Center
NTSP	Navy Training System Plan
NAVPERSCOM	Navy Personnel Command
OPNAV	Office of the Chief of Naval Operations
OPO	Office of the Chief of Naval Operations (OPNAV) Principal Official
PAG	Program Advisory Group
PMA	Program Manager, Air
RFT	Ready For Training
SFTI	Strike Fighter Tactics Instructor
SFTP	Strike Fighter Training Program
SFTS	Strike Fighter Training System
SFTST	Strike Fighter Training System Team

STRIKE FIGHTER TRAINING PROGRAM

LIST OF ACRONYMS

SFWSL	Strike Fighter Weapons School Atlantic
SFWSP	Strike Fighter Weapons School Pacific
SFWT	Strike Fighter Weapons and Tactics
SIPRNET	Secret Internet Protocol Router Network
SME	Subject Matter Expert
SWATSLANT	Strike Weapons and Tactics School Atlantic
TACTS	Tactical Air Combat Training System
TAMPS	Tactical Aircraft Missions Planning System
TBD	To Be Determined
TD	Training Device
TMS	Training Management System
TRAX	Training and Readiness Matrix
TTE	Technical Training Equipment
TYCOM	Type Commander
USMC	United States Marine Corps
USS	United States Ship
WAN	Wide Area Network

STRIKE FIGHTER TRAINING PROGRAM

PREFACE

This Draft Navy Training System Plan (NTSP) for the Strike Fighter Training Program (SFTP), hereafter referred to as SFTP, has been prepared to update the Preliminary Draft Strike Fighter Training Program NTSP, N88-NTSP-A-50-9906/D, dated July 1998. This Draft NTSP incorporates minor changes submitted by the Program Office and complies with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronyms.** Strike Fighter Training Program (SFTP)

2. **Program Element.** 07500N

B. SECURITY CLASSIFICATION

1. **System Characteristics** ..... Unclassified
2. **Capabilities** ..... Unclassified
3. **Functions** ..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N889F)

OPO Resource Sponsor ..... CNO (N889F)

Marine Corps Program Sponsor ..... CMC (ASM1)

Developing Agency ..... NAVAIRSYSCOM (PMA205)

Training Agency ..... COMNAVAIRLANT
COMNAVAIRPAC
NSAWC
COMNAVAIRESFOR

Training Support Agency ..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-433, PERS-4)

Director of Naval Training ..... CNO (N7)

Commander, Reserve Program Manager ..... COMNAVAIRESFOR
(Code N6)

Marine Corps Combat Development Command (MCCDC)
Manpower Management ..... TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The SFTP provides the infrastructure that enables enhanced aircrew training and standardization throughout the F/A-18 and F-14 aircraft communities. It is founded on three components called "pillars":

- Strike Fighter Tactics Instructor (SFTI)
- Strike Fighter Weapons and Tactics (SFWT) syllabus
- Strike Fighter Training System (SFTS)

The SFTP is currently designed to provide formalized instruction at the post-Fleet Readiness Squadron (FRS) level, though envisioned to eventually include the FRS syllabus as well. The goal of the SFTP is to increase aircrew readiness and combat capabilities while achieving training economies and efficiencies. Specifically, the SFTP will develop weapons employment and tactics development skills among Navy and Marine Corps F/A-18 squadrons (both active and reserve) in addition to Navy F-14 units. SFTS implementation will reach all strike fighter squadrons, both ashore and afloat, and will eventually include the Fleet Readiness Squadrons, Marine Aviation Weapons and Tactics Squadron (MAWTS) 1, the Strike Fighter Weapons Schools, the Naval Strike and Air Warfare Center (NSAWC), and Operational Test and Evaluation Squadron Nine.

Prior to July 1995, a "training continuum" for F-14 and F/A-18 aircrew personnel did not exist, since the only formalized instruction resided at the FRS. Following FRS training, aircrew personnel received On-the-Job Training in their respective squadrons in order to fulfill the requisite training and readiness goals as directed by the Type Commanders (TYCOMs). Instruction varied by individual units and lacked standardization. This, in turn, affected the aircrew's ability to maintain proficiency and provided no means to adequately determine a unit's true readiness level. Additionally, there was no mechanism in place to distribute training lectures and/or courseware, nor the ability to quickly update changes to weapons, sensors, and tactics employment doctrine.

In November 1995, a Mission Need Statement (MNS) for the Fleet Aircrew Training Support System was jointly endorsed by the Commander in Chief, United States Naval Forces, Europe (CINCUSNAVEUR); Commander in Chief, United States Pacific Fleet (CINCPACFLT); and Commander in Chief, United States Atlantic Fleet (CINCLANTFLT). From that document, the Air Combat Training Continuum (ACTC) concept was established with the SFTP as the lead element. Briefly, the SFTP includes:

- **Strike Fighter Tactics Instructors.** Fully qualified instructors who will administer internal training and external standardization.

- **Strike Fighter Weapons and Tactics Syllabus.** A structured flight and simulator syllabus that ensures aircrew are fully trained in critical combat skills and are achieving the highest degree of readiness.

- **Strike Fighter Training System.** An integrated computer network that will distribute training materials and provide the means to communicate quickly and globally in a secure environment.

The ACTC and SFTP were approved by the Naval Aviation Training Systems Advisory Group (NATSAG) and have retained a "Number One Priority" status. Subsequently, the Strike Fighter Training System Team (SFTST) was established through the collaboration of CINCPACFLT, CINCLANTFLT, and CINCUSNAVEUR. It has since evolved into the SFTP Executive Steering Committee (ESC) and its subordinate structure comprised of the Program Advisory Group (PAG) and component working groups. Principal members are:

- Commander Naval Air Force, United States Pacific Fleet (COMNAVAIRPAC)
- Commander Naval Air Force, United States Atlantic Fleet (COMNAVAIRLANT)
- Commander Naval Air Reserve Force (COMNAVAIRESFOR)
- NSAWC (N7)
- Representatives from the East and West Coast Air Wings
- MAWTS 1
- Strike Fighter Weapons School, Pacific (SFWSP)
- Strike Fighter Weapons School, Atlantic (SFWSL)
- Strike Weapons and Tactics School, Atlantic (SWATSLANT)

Additionally, the ESC contains advisory members from N889F; Program Manager, Air (PMA) 205; PMA241; and PMA265.

The SFTP ESC determines and communicates actual operational training system requirements to support fleet combat readiness. Additionally, the ESC identifies and plans for future training requirements, generates standards for integration and interoperability of various training system components, and provides the focal point for selection, development, and delivery of training technology and tools in support of the SFWT syllabus. This is all part of the post-FRS training continuum concept as envisioned in the original MNS and communicated through the ACTC program. The SFTST is required to report effectiveness of the SFWT syllabus to the TYCOMs. The Chief of Naval Operations (CNO) N889, CNO N7, TYCOMs, Naval Air Warfare Center Weapons Division (NAWCWD), PMA205, PMA241, and PMA265B are supporting members of the SFTST. The supporting members provide funding, contractual, engineering, and strategic support for the F-14 and F/A-18 communities.

2. Foreign Military Sales. Foreign Military Sales have not been determined. Refer questions to PMA205-3G.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental testing of the SFTS will be performed by Booz, Allen and Hamilton, Inc. beginning in April 2000 and will be completed by August 2000.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. Not Applicable (NA)

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. As mentioned in the preceding section, the SFTP is comprised of three distinct components. Their specific functions and intents are defined below:

a. Strike Fighter Tactics Instructor. The SFTI course objective is to graduate officers who are fully qualified and capable to plan, instruct, and execute the strike fighter mission via the SFWT syllabus. The course includes flight instruction, command and control integration, strike planning, and academics. The course will be conducted as required to provide one SFTI per squadron every 18 months. NSAWC will implement and promulgate candidate prerequisites, the SFTI course syllabus, and class quota control. Type Wing Commander/Carrier Air Wing Reserve (CVWR)20 will promulgate and oversee the SFTI applicant selection process. NSAWC and Type Wing Commanders/CVWR20 will provide input to Navy Personnel Command (NAVPERSCOM) concerning SFTI career paths and distribution.

b. Strike Fighter Weapons and Tactics Syllabus. The SFWT is a comprehensive training, qualification, and certification syllabus that includes academics, simulators, flights, and external standard evaluation sorties. The syllabus objective is to maximize tactical proficiency and increase combat effectiveness. A four-tiered approach in designation of aircrew will be employed. Current SFWT designations include:

- Level I (FRS complete)
- Level II (Tactical Wingman)
- Level III (Section Lead)
- Level IV (Division Lead/Mission Commander)
- Level V (SFTI designation)

The SFWT syllabus and associated qualification and currency guidance will be promulgated via a joint Type Wing/CVWR 20 instruction. Aviation Type Commander/ NSAWC will function in an advisory role to ensure concordance with Training and Readiness directives and the SFTI training syllabus.

c. Strike Fighter Training System. The SFTS will include the technology, materials, organizational structure, and inherent processes that must be integrated to provide effective program management and oversight that prioritizes and approves requirements and allocates resources. It must enable syllabus and courseware development processes, and produce a repository that delivers high quality training materials to fleet aviators. Furthermore, it must

provide a tracking system that quickly, easily, and accurately manages flight crew SFWT status, evaluates their performance, and identifies training strengths and weaknesses. Finally, it must provide a distributed network that allows classified connectivity between the local weapon school and squadrons, between the various weapon schools nationwide, and between deployed squadrons (ashore and afloat).

(1) Work Stations and Development Stations. SFTS Work stations and Development stations will be composed of Commercial Off-The-Shelf (COTS) hardware and software. All COTS hardware and software will meet or exceed the minimum requirement in accordance with the Navy's Information Technology for the 21st century (IT21) specifications that support the delivery, training management, and administration requirements. IT21 specifications were implemented and approved by Department of the Navy Chief Information Office. IT21 specifications will be periodically updated in order to keep up with current technology.

All SFTS Workstations and Development Stations will have full access to the unclassified Internet and classified Local Area Network (LAN), and Secret Internet Protocol Router Network (SIPRNET) Wide Area Network (WAN). Workstations will be used by the aircrew for training and SFTIs to manage the SFWT syllabus and aircrew qualifications at F-14 and F/A-18 squadrons and all Strike Fighter Weapons Schools. Development Stations will be used by all Strike Fighter Weapons Schools to develop and update SFWT syllabus courseware.

(2) Training Generation Subsystem. The Training Generation Subsystem will provide software for the Development Stations to develop SFWT syllabus courseware and is designed to provide the following:

- Multimedia software to generate training courses and briefings in black and white or color.
- Map courseware development to post-FRS schools.
- Standardization and data accuracy of the SFWT syllabus courseware.
- Low-end flight simulation for the SFWT syllabus and for event rehearsal.
- Automated revision capability that will allow for primary and secondary Subject Matter Experts (SMEs) to review, revise, and approve material submitted from any SFTS user for inclusion as training material.
- A mechanism for incorporating lessons learned and SME's feedback data into the development process.
- Desktop publishing tools including word processing, script development, document preparation, and printing support software.
- Web related software including Hyper-Text Markup Language (HTML), editors, browsers, and Java.

- Audio and video tools including capture playback, and generation tools. The SFTS will have the capability to convert live video to static and dynamic images for inclusion in presentations and briefings.
- Graphical application generators include Power Builders, Visual Basic, Visual C++, and Java.
- Graphics software with the following capabilities: Image capture and processing, illustration, painting, animation, 3-D video generation, 3-D animation, and scanning.
- Virtual reality support, including the ability to pick up three dimensional objects and view them from any angle, take the object apart or assemble it, see basic fighter maneuvers or tactics play in real time, and change their position in space to alter the view in real time.
- Briefing generations and presentations to include preparation of slides and view graphs.
- Data fusion software to enable linking from a graphical environment to the underlying data in a database.
- A computer assisted software engineering tool for managing the development of computer courseware.
- Authoring software that supports multi-platform development and delivery.

(3) Training Presentation Subsystem. The Training Presentation Subsystem will provide training tools for F-14 and F/A-18 squadrons and Strike Fighter Weapons Schools. Squadrons and Strike Fighter Weapons Schools provide support for individual study, instructor preparation, course presentation, post-training event evaluation, and feedback. The Training Presentation Subsystem provides the following specific support tools:

- Individual self-paced courseware training for squadrons and Strike Fighter Weapons Schools.
- Small group prepackaged (e.g., Power Point Presentations) training for squadron aircrews.
- Large group presentations using multimedia, low end simulation, and other state-of-the-art training technologies for Strike Fighter Weapons Schools.
- Low-end weapon system rehearsal for squadron aircrews and Strike Fighter Weapons Schools.
- Training event briefing and debriefing component for squadron aircrews and Strike Fighter Weapons Schools.
- Training evaluation component for squadron aircrews and Strike Fighter Weapons Schools.

- Master and slave machine mode for setting up and observing aircrew on-line activity for Strike Fighter Weapons Schools.

(4) Training Management Subsystem. The Training Management Subsystem will provide the following:

- Facilitate training scheduling by automating training events. The Training Management Subsystem will manage resource scheduling and resolve scheduling conflicts and then generate schedules for training.
- Administer and track aircrew training. It will provide a full spectrum management from ground-based training through the briefing for a training event, the event, and post-event debriefing process, including tools for reviewing aircrew progress and remediation.
- Assess training system effectiveness, and provide tools for measuring and reporting squadron readiness.
- Manage, measure, and report all aircrew qualifications, proficiency, and currency, ensuring that access to squadron level data is controlled so that all data will be available at the squadron level, but access by others is limited.

(5) Information Management Subsystem. The Information Management Subsystem's purpose will be to:

- Collect, organize, collate, and maintain SFTS data.
- Disseminate data as on-line displays, reports, graphical images, audio-video, and other animated presentation styles.
- Store reference material. All technical, tactical, and operational doctrines that support the SFTS will be stored in the SFTS database as well as SME data, aircraft and weapons system data, and data specific to each of the SFTS Subsystems.

(6) System Administration and Maintenance Subsystem. The System Administration and Maintenance Subsystem will provide SFTIs and computer operators the ability to perform system administration and maintenance at their activity to include:

- Controlling system access.
- Monitoring performance.
- Performing system operations tasks.
- Administering the SFTS, the SIPRNET WAN, and LAN.
- Ensuring system security.

2. Physical Description

a. Workstations and Development Stations. Per IT21, as a minimum, SFTS Workstations and Development Stations are comprised of the following:

NOMENCLATURE	WORKSTATION
Central Processing Unit	Hewlett Packard medium tower case with a four-megabyte removable hard drive
Monitor	17-inch color display
Keyboard-Mouse	Standard
Software	Windows NT Workstation 4.0, MS Office Pro 97, MS Exchange 5.0 Electronic Mail (e-mail), and McAfee Anti-virus

NOMENCLATURE	DEVELOPMENT STATION
Central Processing Unit	Hewlett Packard medium tower case with a four-megabyte removable hard drive
Monitor	17-inch color display
Keyboard-Mouse	Standard
Software	Meta Creation Painter 5.0, Bryce 3D program 3.1, Adobe Photo Shop 4.01, Adobe Illustrator 7.0, Adobe Premiere 5.0, Adobe After Affect 3.1, Auto Disk 3D Studio Max R2, Auto Des. Sys Form Z 2.95, Macro Media Director 6.0, Authorware 4.0, Sound Forge XP 3.0, and Meta Tool Poser 2.0

3. New Development Introduction. The SFTP is a new production program designed to standardize the current fleet training requirements and qualification standards at squadrons and Strike Fighter Weapons Schools. Introduction of SFTIs to the fleet began in third quarter Fiscal Year (FY)95 and training of new SFTIs will continue indefinitely. Introduction of the SFWT syllabus to the fleet began in fourth quarter FY95. SFWT will become a series of Interactive Courseware (ICW) lessons and Computer Aided Instruction (CAI) lectures delivered by the SFTS. Completion of the initial set of courses is expected in the first quarter FY01 with ongoing revision, maintenance, and introduction of new material and interactive media instruction. The first installation of SFTS equipment to the Strike Fighter Weapons Schools was completed in June 1998. The fleet squadrons will receive hardware and software interfaces in the fourth quarter

FY00, assuming successful completion of Beta testing. Upon completion of Beta testing and delivery, SFTS will be considered Ready For Training (RFT).

4. Significant Interfaces. The SFTP is a new program that introduces Computer Based Training (CBT) and CAI, and will serve as the bench mark or prototype program for all other programs developed for the ACTC. SFTP requires SFTS compliance with Internet protocols, Intelligence Services, Maintenance Management Data, Weapon System Databases, Brief/Debrief Services, Aircraft and Mission Planning Services, and Joint United States Air Force/Multi-national Tactical Systems through use of the LAN and SIPRNET WAN to reach full operating potential. This infrastructure is necessary if realistic F/A-18 and F-14 mission planning and training functions are to be achieved. Figure I-1 illustrates the relationship of each interface to SFTS:

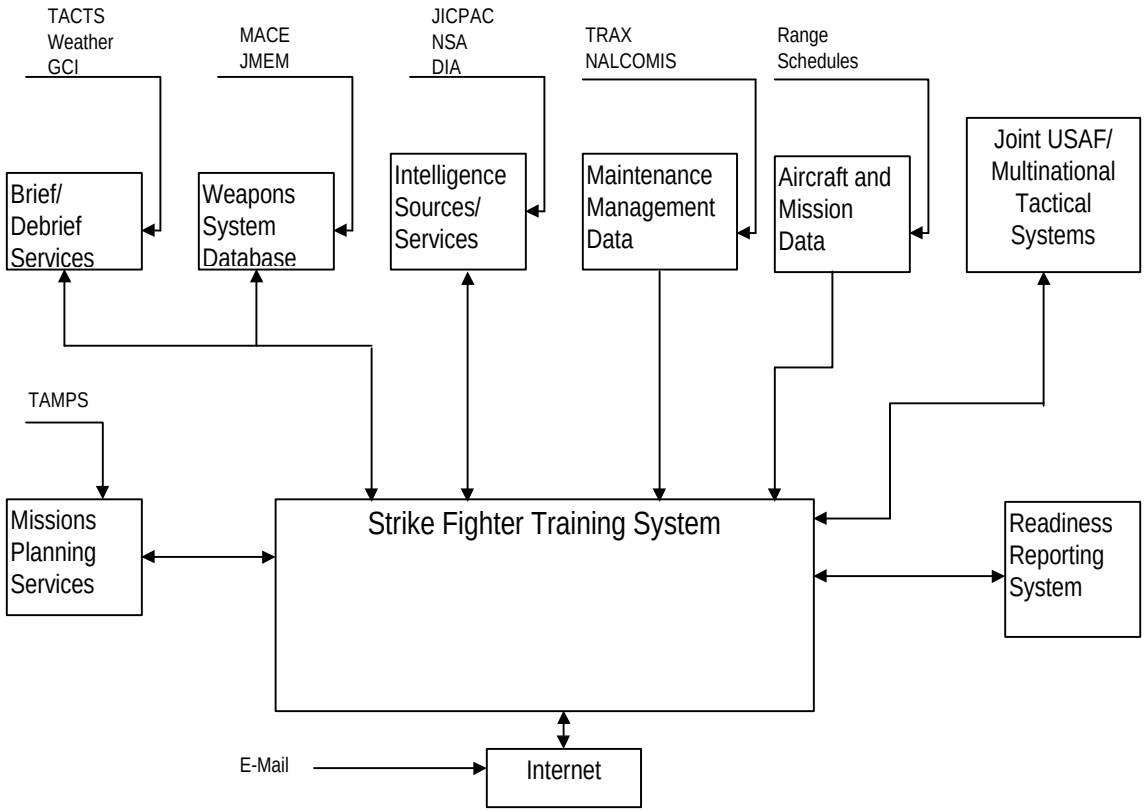

FIGURE I-1: SFTS INTERFACE RELATIONSHIPS

a. Server. The SFTS will have a database, file, print, and communication server at every SFTS location afloat and ashore. All servers will remain in a secure location. Each server will have two sets of duplicate hardware that will meet the minimal requirements of IT21 specifications at the time of delivery. The duplicate hardware will consist of:

- Two 17-inch color monitors
- Up to four co-resident Central Processor Units, size (megabytes) of random access memory will be determined at time of delivery
- Open System (Windows NT) computers with the following requirements:
  - ◊ Processor speed will be sufficient to support high bandwidth file and database access/transfers by 32 simultaneous users
  - ◊ Fast and wide ultra hard drive interfaces
  - ◊ Network interface cards to support high bandwidth LAN/WAN communication
  - ◊ Baud rate of FAX modem is To Be Determined (TBD)
- External removable hard drive arrays, with storage capacity in gigabyte TBD
- Personal Computer Interconnect bus architecture
- External compact disc read only memory carousels to support TBD simultaneously mounted compact disc read only memories
- Digital audio tape drives with a capacity in gigabytes TBD

b. Local Area Network. The SFTS LAN will use a network encryption device (STU III) for secure and unsecure modes to protect from external sources. The LANs feature IT21 high-speed fiber optics technology to support real-time video presentations and televideo conferencing at each SFTS Workstation. A system administrator will be required full-time to install and maintain the SFTS LAN system.

c. Secret Internet Protocol Router Network Wide Area Network. The SIPRNET WAN will be used for secure modes to protect from external sources. The SIPRNET WAN will use satellites at high speed to support SFTS world wide for full duplex televideo conference, real-time collaborative training development, and e-mail to transfer mail. Figure I-2 illustrates how SIPRNET WAN will link F-14 and F/A-18 communities and Strike Fighter Weapons Schools:

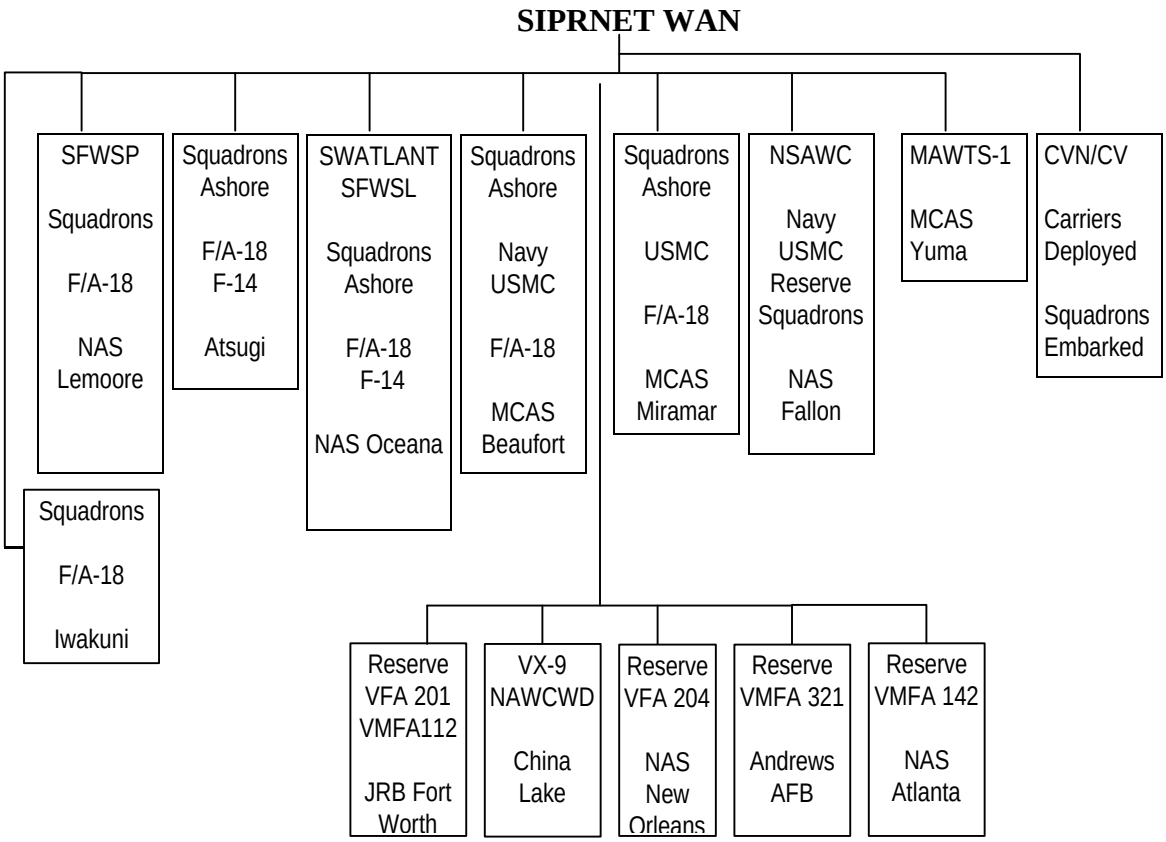

FIGURE I-2: SIPRNET WAN LINK TO F-14 AND F/A-18 COMMUNITIES AND STRIKE FIGHTER WEAPONS SCHOOLS

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. The SFTP is being funded by CNO N889 during the implementation of the program and administered by PMA205. In FY01, the appropriate TYCOM or NSAWC will assume operation and support of the program.

The SFTP is managed by the individual TYCOMs with the assistance of the PAG/ESC. The PAG/ESC is responsible to ensure effectiveness of the SFWT syllabus and for relaying to TYCOMs the needs of the program to achieve MNS goals.

The SFTIs at the Strike Fighter Weapons Schools will operate the SFTS to train students and update the SFWT syllabus. The SFTIs at the squadrons will operate the SFTS to manage and monitor aircrew training using the SFWT syllabus. The system will have the capability of operating 24-hours per day.

2. Maintenance Concept

a. Organizational. A System Administrator will be contracted for each site to perform organizational level maintenance on SFTSs, servers, and LANs, which will consist of removal and replacement of Lowest Replaceable Units (LRU) at the equipment level (i.e., Central Processing Unit (CPU), monitor, keyboard, printer, etc.). The SFTS will use fault isolation software to diagnose and locate failed units.

(1) Preventive Maintenance. Preventive maintenance will consist of scheduled system backups, periodic defragmentation of disk drives, and general cleaning maintenance actions.

(2) Corrective Maintenance. Corrective maintenance will consist of replacing failed LRUs and rebuilding of corrupted files.

b. Intermediate. NA

c. Depot. Depot level repair of the SFTS will be conducted by a contractor for two years. Following that, it will be left up to the individual TYCOMs to determine the repair facility. The repair facility has not yet been determined.

d. Interim Maintenance. Booz, Allen and Hamilton, Inc. is considered the interim maintenance activity for the SFTS hardware and associated Training Management System (TMS).

e. Life-Cycle Maintenance Plan. TBD

3. Manning Concept. The SFTS will have no impact on existing manpower requirements for F-14 and F/A-18 communities. Existing pilots at F-14 and F/A-18 squadrons and all Strike Fighter Weapons Schools are selected to receive training as a SFTI for their activity. These selected aircrews will administer the syllabus and verify the training material for accuracy. An Additional Qualification Designator (AQD) for SFTI is pending approval.

NSAWC is responsible for training the SFTIs, who will be detailed to fill SFTI billets at all Strike Fighter Weapons Schools and in every F-14 and F/A-18 squadron. Each F-14 and F/A-18 squadron will have an assigned billet for a SFTI by fourth quarter FY99 to manage the SFWT syllabus.

The following are the minimum requirements to attend SFTI courses:

- Endorsement by Commanding Officer, Air Wing Commander, or Type Wing Commander focusing on leadership, tactical ability, aviation skills, and instructing capability.

- Selection by Semiannual Type Wing selection board, which will convene prior to class convening dates for the purpose of selecting and prioritizing a list of SFTI candidates for each class.
- Acknowledging acceptance to the SFTI course requires a 24-month active duty obligation after completion of the SFTI course.

4. Training Concept. The NSAWC provides follow-on training for all SFTIs for all Strike Fighter Weapons Schools in the F-14 and F/A-18 communities. The SFTIs are responsible for training aircrews, managing the SFWT syllabus at their sites, and serving as the cornerstone of the SFTS program. The SFTIs develop and retain expert knowledge, core competencies, and maintain program continuity. SFTIs at NSAWC are SMEs, who are the hub for weapons and tactical information flow to and from fleet SFTIs.

The SFWT syllabus provides aircrews a core qualification and certification process and is a standardized CBT syllabus for operational fleet F-14 and F/A-18 squadrons. The SFWT syllabus includes formalized academics, simulators, flights, and external standardization evaluation sorties within a five tiered approach as follows:

- Level I: FRS Complete
- Level II: Tactical Wingman
- Level III: Section Lead
- Level IV: Division Lead/Mission Commander
- Level V: Strike Fighter Tactics Instructor

Aircrew training records will be maintained on all aircrew members at their respective squadrons. Coordination of the aircrew training as recorded by the SFTS TMS will be conducted with the TYCOM Readiness Management System. These records are part of the database and will be used to track the following information:

- Qualification
- Syllabus Events
- Open and Closed Book Examinations
- Event Grade Sheets
- Certifications
- Unsatisfactory Events
- External Standard Evaluations
- Level 2, 3, and 4 Wing Recommendations
- Individual and Unit Level Training Readiness
- Lectures

a. Initial Training. The Naval Research and Development Department of the Naval Air Systems Command was funded by PMA205 to produce a SFTST Guide and SFTS Interactive Course Style Guide. This action provided initial training for the SFTP ESC on the development of ICW. Analysis and Technology, Inc. provided initial SFTS training for System

Administrators at all Strike Fighter Weapons Schools on Windows NT 4.0, Workstation 4.0, and Cheyenne Server Back-up from May to June 1998. The initial training length varied, depending on the level of experience of the System Administrators and was recorded as follows: NSAWC (three days), SFWSP (one and a one half days), SFWSL (one and one half days), SWATSLANT (ten days). Initial fleet training will begin upon system delivery scheduled for FY00.

b. Follow-on Training. The SFTI courses pending approval by OPNAV N889 are listed below.

(1) Operator

Title	**Topgun Strike Fighter Tactics Instructor (Marine)**
CIN	M-2A-XXXX/pending approval
Model Manager ..	NSAWC Naval Air Station (NAS) Fallon
Description	Using the SWFT syllabus, provides standardized training to Marine Corps F/A-18 pilots in the knowledge and skills required to perform as a SFTI in the fleet and at the Strike Fighter Weapons Schools.
Location	NSAWC NAS Fallon
Length	33 days
RFT date	Currently available under interim approval
Skill identifier	MOS 7523, 7527
TTE/TD	TTE required is a squadron supplied F/A-18 Aircraft as applicable, Workstations, and Development Stations.
Prerequisites	Qualified F/A-18 Pilot

Title	**Topgun Strike Fighter Tactics Instructor (Navy)**
CIN	S-2A-XXXX, pending approval
Model Manager ..	NSAWC NAS Fallon
Description	Using the SWFT syllabus, provides standardized training to Navy F-14 and F/A-18 pilots in the knowledge and skills required to perform as a SFTI in the fleet and at the Strike Fighter Weapons Schools.
Location	NSAWC NAS Fallon
Length	68 days
RFT date	Currently available under interim approval

Skill identifier 1311

TTE/TD ..... TTE required is squadron supplied F-14 and F/A-18 aircraft as applicable, Workstations, and Development Stations.

Prerequisites ..... Qualified F/A-18 or F-14 Pilot

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
F-14 Pilot 1311	° Q-2A-0001, Primary Flight Training ° Q-2A-0010, Joint T-34C Intermediate Flight Training ° Q-2A-0006, Advanced Strike ° E-2D-0032, Survival, Evasion, Resistance, and Escape Training ° J-495-0413, Shipboard Aircraft Firefighting
F/A-18 Pilot 1311	° Q-2A-0001, Primary Flight Training ° Q-2A-0010, Joint T-34C Intermediate Flight Training ° Q-2A-0006, Advanced Strike ° E-2D-0032, Survival, Evasion, Resistance, and Escape Training ° J-495-0413, Shipboard Aircraft Firefighting
F/A-18 Pilot MOS 7523, 7527	° Q-2A-0001, Primary Flight Training ° Q-2A-0010, Joint T-34C Intermediate Flight Training ° Q-2A-0006, Advanced Strike ° E-2D-0032, Survival, Evasion, Resistance, and Escape Training ° J-495-0413, Shipboard Aircraft Firefighting

d. Training Pipelines. M-2A-XXXX and S-2A-XXXX are existing stand-alone courses with Course Identification Numbers pending approval. The F-14 and F/A-18 pipeline training tracks are not affected by this program.

I. ON-BOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. SFTS will be an on-board proficiency CBT system that utilizes various interface services accessible at each

workstation and available at each site. The SFTI must establish the SFTS program at each site to ensure continued proficiency of assigned aircrews.

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance In-Service Training. NA

2. Personnel Qualification Standards. NA

3. Other On-Board or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. Analysis and Technology, Incorporated is contracted to install, maintain, and provide initial training on the SFTS at all Strike Fighter Weapons Schools for the next two years.

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N66604-95-D-0047-0112	Analysis and Technology, Incorporated	2650 Camino Del Rio North # 201 San Diego, CA 92108
N0001999RXBS88A	Booz-Allen and Hamilton, Inc.	1615 Murray Canyon Road Suite 800 San Diego, CA 92108
N0001999RXBS87A	Logistics Services International	6200 Lake Gray Boulevard Jacksonville, FL 32244-5896

2. Program Documentation. The Commander, Naval Air Force US Pacific Fleet Functional Requirements Document (FRD) Version 2 update is pending approval August 1999; Strike Fighter Training Program Technical Report, N00421-95-D-1001 approved September 1997; F-14 Draft NTSP, N88-A-50-8511B/D, February 1998; F-18E/F NTSP, NTSP-A-50-9201A/A, approved January 1998; CINCUSNAVEUR, CINCPACFLT, and CINCLANTFLT MNSs, Draft, November 1995.

3. Technical Data Plan. F-14 and F/A-18 pilots utilize the F-14 and F/A-18 Naval Air Training and Operating Procedures Standardization (NATOPS) manual they are issued and the instruction listed in element IV.B.3.

4. Test Sets, Tools, and Test Equipment. NA

5. Repair Parts. SFTS will be composed of COTS and Government Furnished hardware and COTS software that will support delivery, training management, and administration

requirements. The maintenance and repair costs of the SFTS will be funded by PMA205 through FY01. Maintenance and repair cost after FY01 will be funded by the TYCOMs.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. Navy and Marine Corps Bases listed in the table below received servers, LAN, and SIPRNET WAN hardware to support the SFTS. The only thing Aircraft Carriers need to support the SFTS will be drops to the ready rooms from existing servers, LANs, and SIPRNET WANs. The Strike Fighter Weapons Schools in the table below had SFTS installed in June 1998, and the Navy Bases they are attached to had supporting hardware installed at the same time. The squadrons that will have SFTS installed at their sites are listed in element II.A.1.a.

DELIVERY AND INSTALLATION SCHEDULE (HARDWARE AND SOFTWARE)

ACTIVITY	FY98				FY99				FY00			
QUARTER:	1	2	3	4	1	2	3	4	1	2	3	4
NSAWC NAS Fallon, Nevada			*									
SFWSL NAS Oceana, Virginia			*									
SFWSP NAS Lemoore, California			*									
SWATSLANT NAS Oceana, Virginia			*									
NAS Lemoore, California			*									
NAS Fallon, Nevada			*									
Marine Corps Air Station (MCAS) Miramar, California											*	
NAWCWD China Lake, California												*
MAWTS 1, Yuma, Arizona											*	
MCAS Beaufort, South Carolina											*	
NAS Oceana, Virginia			*									
Naval Air Facility (NAF) Atsugi, Japan											*	

ACTIVITY	FY98				FY99				FY00			
QUARTER:	1	2	3	4	1	2	3	4	1	2	3	4
MCAS Cherry Point, North Carolina											*	
MCAS Iwakuni, Japan											*	
Squadrons (Active and Reserve)											*	*
Aircraft Carrier (CV) 63, United States Ship (USS) Kitty Hawk	T	B	D									
Aircraft Carrier, Nuclear (CVN) 65, USS Enterprise	T	B	D									
CV 67, USS John F. Kennedy	T	B	D									
CVN 68, USS Nimitz	T	B	D									
CVN 69, USS Dwight D. Eisenhower	T	B	D									
CVN 70, USS Carl Vinson	T	B	D									
CVN 71, USS Theodore Roosevelt	T	B	D									
CVN 72, USS Abraham Lincoln	T	B	D									
CVN 73, USS George Washington	T	B	D									
CVN 74, USS John C. Stennis	T	B	D									
CVN 75, USS Harry S. Truman	T	B	D									
Joint Reserve Base (JRB) Fort Worth, Texas												*
Naval Reserve Base (NRB) New Orleans, Louisiana												*
NRB Washington, D.C.												*
NRB Atlanta, Georgia												*

ICW and CAI are made up of several courses and lectures. As each product is completed, it will be delivered to the appropriate weapon school for review. Upon approval by the cognizant SME, the ICW and CAI will be placed on the network and considered ready for training. The initial ICW and CAI began delivery in third quarter FY99 and delivery will be completed during first quarter FY01.

DELIVERY AND INSTALLATION SCHEDULE (COURSEWARE)

COURSEWARE	**FY99**				**FY00**				**FY01**			
QUARTER:	**1**	**2**	**3**	**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**	**4**
Interactive Courseware			*	*	*	*	*	*	*			
Computer Aided Instruction			*	*	*	*	*	*	*			

2. Ready For Operational Use Schedule. Installation of hardware and software will be required at each activity. SFTS will be ready for operational use upon completion of installation.

3. Time Required to Install at Operational Sites. Hardware installation time will vary, depending on existing hardware at each activity.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. Refer to Part IV, element IV.A.1 for applicable Technical Training Equipment (TTE). There are no Training Devices (TD) associated with SFTS.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	**DOCUMENT OR NTSP NUMBER**	**PDA CODE**	**STATUS**
Functional Requirements Document	NA	COMNAVAIRPAC	Updated Aug 99

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Strike Fighter Training Program Instruction	COMNAVAIRPAC INST 1525.1B COMNAVAIRLANT INST 1525.1B NSAWCINST 1525.1 COMNAVAIRESFOR INST 1542.3B	COMNAVAIRPAC COMNAVAIRLANT NSAWC COMNAVAIRESFOR	Signed Aug 98
Strike Fighter Training Program Technical Report	N00421-95-D-1001	PMA205	Approved Sep 97
F-14A, F-14B, and F-14D Aircraft NTSP	NTSP-A-50-8511B/D	PMA241	Draft Feb 98
F/A-18E/F Weapon System NTSP	NTSP-A-50-9201A/A	PMA265	Approved Jan 98
Mission Need Statements	NA	CINCUSNAVEUR, CINCPACFLT, and CINCLANTFLT	Nov 95

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the SFTP, and therefore, are not included in Part II of this NTSP.

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: PMA205 **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITIES	NAVY						
Strike Fighter Weapons School Atlantic	47084	1	0	0	0	0	0
SWATSLANT, NAS Oceana	47157	1	0	0	0	0	0
VF-101	65552	0	1	0	0	0	0
VF-102	09717	0	1	0	0	0	0
VF-103	09718	0	1	0	0	0	0
VF-11	09560	0	1	0	0	0	0
VF-14	09084	0	1	0	0	0	0
VF-143	09281	0	1	0	0	0	0
VF-2	09113	0	1	0	0	0	0
VF-211	09086	0	1	0	0	0	0
VF-213	09934	0	1	0	0	0	0
VF-31	09473	0	1	0	0	0	0
VF-32	09053	0	1	0	0	0	0
VF-41	09774	0	1	0	0	0	0
VFA-105	65183	0	1	0	0	0	0
VFA-106	65550	0	1	0	0	0	0
VFA-131	63934	0	1	0	0	0	0
VFA-136	55141	0	1	0	0	0	0
VFA-15	09015	0	1	0	0	0	0
VFA-203	09030	0	1	0	0	0	0
VFA-204	09032	0	1	0	0	0	0
VFA-37	09478	0	1	0	0	0	0
VFA-81	09221	0	1	0	0	0	0
VFA-82	09122	0	1	0	0	0	0
VFA-83	09223	0	1	0	0	0	0
VFA-86	09943	0	1	0	0	0	0
VFA-87	63922	0	1	0	0	0	0
VFC-12	52994	0	1	0	0	0	0
VX-9	55646	0	1	0	0	0	0
Strike Fighter Weapons School Pacific	35185	1	0	0	0	0	0
VF-154	09678	0	1	0	0	0	0
VFA-113	09092	0	1	0	0	0	0
VFA-115	09604	0	1	0	0	0	0
VFA-122	09355	0	1	0	0	0	0
VFA-125	65559	0	1	0	0	0	0
VFA-137	55142	0	1	0	0	0	0
VFA-146	09063	0	1	0	0	0	0
VFA-147	63925	0	1	0	0	0	0
VFA-151	09558	0	1	0	0	0	0
VFA-192	09076	0	1	0	0	0	0
VFA-195	09706	0	1	0	0	0	0
VFA-201	09309	0	1	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: PMA205 **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
VFA-22	09561	0	1	0	0	0	0
VFA-25	09637	0	1	0	0	0	0
VFA-27	65185	0	1	0	0	0	0
VFA-94	09295	0	1	0	0	0	0
VFA-97	63923	0	1	0	0	0	0
TOTAL:		3	44	0	0	0	0
OPERATIONAL ACTIVITIES	MARINE						
VMFA-115	09234	1	0	0	0	0	0
VMFA-122	09407	1	0	0	0	0	0
VMFA-142	67822	1	0	0	0	0	0
VMFA-251	09241	1	0	0	0	0	0
VMFA-312	09253	1	0	0	0	0	0
VMFA-321	09265	1	0	0	0	0	0
VMFA(AW)-224	09439	1	0	0	0	0	0
VMFA(AW)-332	09501	1	0	0	0	0	0
VMFA(AW)-533	09193	1	0	0	0	0	0
Marine Aircraft Group-11	09257	1	0	0	0	0	0
Marine Aircraft Group-12	09377	1	0	0	0	0	0
Marine Aircraft Group-31	09234	1	0	0	0	0	0
MAWTS-1	55167	1	0	0	0	0	0
VMFA-112	08954	1	0	0	0	0	0
VMFA-134	09365	1	0	0	0	0	0
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	1	0	0	0	0	0
VMFA-314	09230	1	0	0	0	0	0
VMFA-323	09235	1	0	0	0	0	0
VMFA(AW)-121	09257	1	0	0	0	0	0
VMFA(AW)-225	09232	1	0	0	0	0	0
VMFA(AW)-242	09668	1	0	0	0	0	0
VMFAT-101	09965	1	0	0	0	0	0
TOTAL:		23	0	0	0	0	0
FLEET SUPPORT ACTIVITIES	Navy						
NSAWC	69190	1	0	0	0	0	0
TOTAL:		1	0	0	0	0	0

Note 1: The SFTS will be installed at the activities listed above with the exception of the Strike Fighter Weapons Schools, SWATSLANT, and NSAWC, which had the SFTS installed at their sites in June 1998.

Note 2: The commands having supporting hardware installed are listed in Part I.

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES NAVY					
Strike Fighter Weapons School Atlantic, 47084					
ACDU	10	0	1311		
ACTIVITY TOTAL:	10	0			
SWATSLANT, NAS Oceana, 47157					
ACDU	29	0	1311		
ACTIVITY TOTAL:	29	0			
VF-101, 65552					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-102, 09717					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-103, 09718					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-11, 09560					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-14, 09084					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-143, 09281					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-2, 09113					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-211, 09086					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VF-213, 09934					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-31, 09473					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-32, 09053					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VF-41, 09774					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-105, 65183					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-106, 65550					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-131, 63934					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-136, 55141					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-15, 09015					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-203, 09030					
TAR	1	0	1311		
ACTIVITY TOTAL:	1	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VFA-204, 09032					
TAR	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-37, 09478					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-81, 09221					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-82, 09122					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-83, 09223					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-86, 09943					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-87, 63922					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFC-12, 52994					
TAR	1	0	1311		
ACTIVITY TOTAL:	1	0			
VX-9, 55646					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
Strike Fighter Weapons School Pacific, 35185					
ACDU	15	0	1311		
ACTIVITY TOTAL:	15	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VF-154, 09678					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-113, 09092					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-115, 09604					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-122, 09355					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-125, 65559					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-137, 55142					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-146, 09063					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-147, 63925					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-151, 09558					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			
VFA-192, 09076					
ACDU	1	0	1311		
ACTIVITY TOTAL:	1	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT		BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VFA-195, 09706						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-201, 09309						
TAR		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-22, 09561						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-25, 09637						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-27, 65185						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-94, 09295						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
VFA-97, 63923						
ACDU		1	0	1311		
ACTIVITY TOTAL:		1	0			
OPERATIONAL ACTIVITIES	MARINE					
VMFA-115, 09234						
USMC		1	0		7523	
ACTIVITY TOTAL:		1	0			
VMFA-122, 09407						
USMC		1	0		7523	
ACTIVITY TOTAL:		1	0			
VMFA-142, 67822						
AR		1	0		7523	
ACTIVITY TOTAL:		1	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-251, 09241					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-312, 09253					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-321, 09265					
AR	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-224, 09439					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-332, 09501					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-533, 09193					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
Marine Aircraft Group-11, 09257					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
Marine Aircraft Group-12, 09377					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
Marine Aircraft Group-31, 09234					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
MAWTS-1, 55167					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-112, 08954					
AR	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-134, 09365					
AR	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-212, 09434					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-232, 09242					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-314, 09230					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA-323, 09235					
USMC	1	0		7523	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-121, 09257					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-225, 09232					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
VMFA(AW)-242, 09668					
USMC	1	0		7527	
ACTIVITY TOTAL:	1	0			
VMFAT-101, 09965					
USMC	2	0		7523	
ACTIVITY TOTAL:	2	0			

Note: The commands listed in this section will have SFTI billets.

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
OPERATIONAL NAVY ACTIVITIES - ACDU													
1311		93		94		94		94		94		94	
OPERATIONAL NAVY ACTIVITIES - TAR													
1311		4		4		4		4		4		4	
OPERATIONAL MARINE ACTIVITIES - USMC													
	7523	14		14		14		14		14		14	
	7527	6		6		6		6		6		6	
OPERATIONAL MARINE ACTIVITIES - AR													
	7523	4		4		4		4		4		4	
SUMMARY TOTALS:													
OPERATIONAL NAVY ACTIVITIES - ACDU													
		93		94		94		94		94		94	
OPERATIONAL NAVY ACTIVITIES - TAR													
		4		4		4		4		4		4	
OPERATIONAL MARINE ACTIVITIES - USMC													
		20		20		20		20		20		20	
OPERATIONAL MARINE ACTIVITIES - AR													
		4		4		4		4		4		4	
GRAND TOTAL:													
NAVY ACTIVITIES - ACDU													
		93		94		94		94		94		94	
NAVY ACTIVITIES - TAR													
		4		4		4		4		4		4	
MARINE ACTIVITIES - USMC													
		20		20		20		20		20		20	
MARINE ACTIVITIES - AR													
		4		4		4		4		4		4	

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
INSTRUCTOR BILLETS													
TRAINING ACTIVITY, LOCATION, UIC: Naval Air and Weapons Center, NAS Fallon, Nevada, 69190													
USMC													
	7523	4	0	4	0	4	0	4	0	4	0	4	0
TOTAL ACTIVITY:		4	0	4	0	4	0	4	0	4	0	4	0
TRAINING ACTIVITY, LOCATION, UIC: Naval Strike and Air Warfare Center (TOPGUN), NAS Fallon, Nevada, 69190													
ACDU													
	1311	23	0	23	0	23	0	23	0	23	0	23	0
TOTAL ACTIVITY:		23	0	23	0	23	0	23	0	23	0	23	0

Note: The course for SFTIs started in FY95 under Interim Approval.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
Naval Strike and Air Warfare Center (TOPGUN), NAS Fallon, Nevada, 69190													
	Navy	0.0		0.0		0.0		0.0		0.0		0.0	
	Marine	0.0		0.0		0.0		0.0		0.0		0.0	
SUMMARY TOTAL:													
	Navy	0.0		0.0		0.0		0.0		0.0		0.0	
	Marine	0.0		0.0		0.0		0.0		0.0		0.0	
GRAND TOTAL:													
		0.0		0.0		0.0		0.0		0.0		0.0	

Note: All SFTIs will be non-chargeable billets.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC / SNEC PMOS/SMOS	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
a. OFFICER - USN												
Operational Billets ACDU and TAR												
1311		97	0	98	0	98	1	98	0	98	0	98
Staff Billets ACDU and TAR												
1311		23	0	23	0	23	0	23	0	23	0	23
TOTAL USN OFFICER BILLETS:												
Operational		97	0	98	0	98	1	98	0	98	0	98
Staff		23	0	23	0	23	0	23	0	23	0	23
b. ENLISTED - USN	NA											
c. OFFICER - USMC												
Operational Billets USMC and AR												
	7523	18	0	18	0	18	0	18	0	18	0	18
	7527	6	0	6	0	6	0	6	0	6	0	6
Staff Billets USMC and AR												
	7523	4	0	4	0	4	0	4	0	4	0	4
TOTAL USMC OFFICER BILLETS:												
Operational		24	0	24	0	24	0	24	0	24	0	24
Staff		4	0	4	0	4	0	4	0	4	0	4
d. ENLISTED - USMC	NA											

Note: The course for SFTIs started in FY95 under Interim Approval.

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Marine)
COURSE LENGTH: 5.0 Weeks **TOUR LENGTH:**
ATTRITION FACTOR: Marine: 0% **BACKOUT FACTOR:** 0.10

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
Naval Strike and Air Warfare Center (TOPGUN), NAS Fallon												
	Marine	USMC	5		5		5		5		5	
		AR	1		1		1		1		1	
		TOTAL:	6		6		6		6		6	

CIN, COURSE TITLE: S-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Navy)
COURSE LENGTH: 10.0 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 0% **BACKOUT FACTOR:** 0.20

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
Naval Strike and Air Warfare Center (TOPGUN), NAS Fallon												
	Navy	ACDU	31		31		32		31		31	
		TAR	1		1		1		1		1	
		TOTAL:	32		32		33		32		32	

Note: The course for SFTIs started in FY95 under Interim Approval.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the SFTP, and therefore, are not included in Part III of this NTSP.

III.A. Training Course Requirements

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Marine)

TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

SOURCE: Marine **STUDENT CATEGORY:** USMC - AR

FY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6		6		6		6		6		ATIR
6		6		6		6		6		Output
0.5		0.5		0.5		0.5		0.5		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: S-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Navy)

TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

SOURCE: Navy **STUDENT CATEGORY:** ACDU - TAR

FY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
32		33		32		32		32		ATIR
32		33		32		32		32		Output
6.0		6.1		6.0		6.0		6.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

Note: The course for SFTIs started in FY95 under Interim Approval.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the SFTP, and therefore, are not included in Part IV of this NTSP.

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space / Support) By Activity

IV.C.2. Facility Requirements Detailed By Activity And Course

IV.C.3. Facility Project Summary By Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE
IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: M-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Marine)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Desktop Workstation	12	Jan 00	GFE	Pending
002	Development Station	4	Jun 98	GFE	Onboard
003	Laptop	1	Jun 98	GFE	Onboard

CIN, COURSE TITLE: S-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Navy)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Desktop Workstation	12	Jan 00	GFE	Pending
002	Development Station	4	Jun 98	GFE	Onboard
003	Laptop	1	Jun 98	GFE	Onboard

Note: Both courses will use the same TTE listed in this section. There are only 12 Desktop Workstations, four Development Stations, and one Laptop for both courses.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: M-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Marine)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instructions	1	Sep 98	Onboard
Course Outline	1	Jul 95	Onboard
Instructor Guide	1	Jul 95	Onboard
Interactive Courseware Lectures	1	Sep 98	Onboard
Student Guides	1	Jul 95	Onboard

CIN, COURSE TITLE: S-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Navy)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC: NAS Fallon, 69190

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instructions	1	Sep 98	Onboard
Course Outline	1	Jul 95	Onboard
Instructor Guide	1	Jul 95	Onboard
Interactive Courseware Lectures	1	Sep 98	Onboard
Student Guides	1	Jul 95	Onboard

Note: The Course Outline, Instructor Guide, and Student Guides are saved on a computer and printed on an as needed basis.

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: M-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Marine)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC : NAS Fallon, Nevada, 69190

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Strike Fighter Tactics Instructor and Strike Fighter Weapons and Tactics Program	Hard copy	1	Jul 95	Onboard

CIN, COURSE TITLE: S-2A-XXXX, Topgun Strike Fighter Tactics Instructor (Navy)
TRAINING ACTIVITY: Naval Strike and Air Warfare Center (TOPGUN)
LOCATION, UIC : NAS Fallon, Nevada, 69190

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Strike Fighter Tactics Instructor and Strike Fighter Weapons and Tactics Program	Hard copy	1	Jul 95	Onboard

Note: The Instruction is COMNAVAIRPACINST 1525.1B / COMNAVAIRLANTINST 1525.1B / COMNAVAIRRESFORINST 1542.3B

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Began SFTI follow-on training	Jul 95	Complete
TSA	Delivered curricula materials	Jul 95	Complete
PDA	Began analysis of manpower personnel, and training requirements	Apr 98	Complete
OPO	Developed Preliminary Draft NTSP	Jun 98	Complete
TSA	Began SFTS initial Training	Jun 98	Complete
TSA	Delivered TTE	Jun 98	Complete
TSA	Installed TTE	Jun 98	Complete
OPO	Distribute Draft NTSP to Fleet for review	Sep 99	Pending
OPTEVFOR	Begin Development Test SFTS	Apr 00	Pending
PDA	Begin Fleet introduction SFTS	Jul 00	Pending

PART VI - ACTION ITEMS / ACTION REQUIRED

ACTION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

Note: There are no action items pending.

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT Robert Snyder Aviation Training Resources and Tactical Training Range, Head CNO, N889F/K synder.robert@hq.navy.mil	**COMM:** (703) 604-7737 **DSN:** 664-7737 **FAX:** (703) 604-6969
LCDR Dave Fisher Air Combat Training Continuum CNO, N889F2 fisher.david@hq.navy.mil	**COMM:** (703) 604-7724 **DSN:** 664-7724 **FAX:** (703) 604-6969
AZC Scott Dean NTSP Manager CNO, N889H7 dean.scott@hq.navy.mil	**COMM:** (703) 604-7714 **DSN:** 664-7714 **FAX:** (703) 604-6939
Mr. Robert Zweibel Training Technology Policy CNO, N75B Zweibel.robert@hq.navy.mil	**COMM:** (703) 614-1344 **DSN:** 224-1344 **FAX:** (703) 695-5698
COL Kenneth Hill Branch Head, USMC Aviation Manpower Management CMC, ASM-1 khill@notes.hqi.usmc.mil	**COMM:** (703) 614-1244 **DSN:** 224-1244 **FAX:** (703) 614-1309
Ms. Gweneen Scruggs SFTS Program Manager NAVAIRSYSCOM, PMA205-3G scruggsgs@navair.navy.mil	**COMM:** (301) 757-8163 **DSN:** 757-8163 **FAX:** (301) 757-6945
CDR Robert Finlayson SFTP Program Manager NAWCTSD, 1.1A finlaysonrk@navair.navy.mil	**COMM:** (407) 380-8410 **DSN:** 960-8410 **FAX:** (407) 380-4245
CAPT Ted Carson F-14 Program Manager NAVAIRSYSCOM, PMA241 carsontm@navair.navy.mil	**COMM:** (301) 757-7355 **DSN:** 757-7355 **FAX:** (301) 757-6577
CAPT James Godwin F/A-18 Program Manager NAVAIRSYSCOM, PMA265 godwinjb@navair.navy.mil	**COMM:** (301)757-7355 **DSN:** 757-7355 **FAX:** (301)757-7679
CDR Robin Mason Aviation NTSP Manager CINCLANTFLT, N-721 masonrf@clf.navy.mil	**COMM:** (757) 836-0101 **DSN:** 836-0101 **FAX:** (757) 836-0141

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Robert Long Deputy Director of Training CINCPACFLT, N-321 u70@cpf.navy.mil	**COMM:** (808) 474-8513 **DSN:** 474-8513 **FAX:** (808) 471-8613
CDR Jim Lowder Information and Analysis, Head COMNAVAIRRESFOR, N6 lowder@cnrf.nola.navy.mil	**COMM:** (504) 678-6135 **DSN:** 678-6135 **FAX:** (504) 678-6447
LCDR Brian Mack Aviation Manpower CNO, N122C1 n122c1@bupers.navy.mil	**COMM:** (703) 695-3247 **DSN:** 225-3247 **FAX:** (703) 614-5308
CAPT Robert Gibson Deputy Assistant, Chief of Military Personnel for Distribution NAVPERSCOM, PERS-4B p4b@persnet.navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606
LCDR Bret Batchelder Officer Placement, Aviation VFA NAVPERSCOM, PERS-433a p433a@persnet.navy.mil	**COMM:** (901) 874-3959 **DSN:** 882-3959 **FAX:** (901) 693-1392
LCDR Roy Kelly Officer Placement, Aviation VF NAVPERSCOM, PERS-433b p433b@persnet.navy.mil	**COMM:** (901) 874-3979 **DSN:** 882-3979 **FAX:** (901) 874-1392
MAJ Jon Doering Head, ACE Branch, TFS Division MCCDC, C5325A doeringjg@mccdc.usmc.mil	**COMM:** (703) 784-6241 **DSN:** 278-6241 **FAX:** (703) 784-6072
Mr. Al Sargent NTSP Coordinator NAVMAC, 33 al.sargent@navmac.navy.mil	**COMM:** (901) 874-6247 **DSN:** 882-6247 **FAX:** (901) 874-6471
CDR Eric Blunt Aviation Technical Training CNET, ETE32 cdr eric.blunt@smtp.cnet.navy.mil	**COMM:** (850) 452-4915 **DSN:** 922-4915 **FAX:** (904) 452-4901
LCDR Michael Vizcarra Assistant Training Officer, NSAWC NSAWC, N7 vizcarrm@NSAWC.navy.mil	**COMM:** (702) 426-2016 **DSN:** 890-2016 **FAX:** (702) 426-4059

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Phil Szczyglowski Competency Manager NAVAIRSYSCOM, 3.4.1.1 szczyglowspr@navair.navy.mil	**COMM:** (301) 757-9182 **DSN:** 757-9182 **FAX:** (301) 342-4723
AMCS Greg Johnson NTSP Coordinator NAVAIRSYSCOM, 3.4.1.1 johnsongp@navair.navy.mil	**COMM:** (301) 757-9188 **DSN:** 757-9188 **FAX:** (301) 342-4723
AE1 Richard Axtell Manpower, Personnel, and Training Analyst NAVAIRSYSCOM, 3.4.1.1 axtellra@navair.navy.mil	**COMM:** (301) 757-9187 **DSN:** 757-9187 **FAX:** (301) 342-4723
Mr. Floyd Price SFTS NTSP Author Analysis and Technology, Incorporated floyd_price@atinc.com	**COMM:** (619) 298-7035 **DSN:** NA **FAX:** (619)298-0169